

Purchase Order Receipt Listing

Wednesday, January 30, 2013 7:55:07 AM

All Vendors PO ID PO18936 Receipt Dates from
All Item ID/GL/WOS All Rec. Employees All C
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Cert Std	P
VendorID\Vendor Name PO18936	1	VC-COP001	Thyssenku	
CAD	No	M6061T6B0.250X02.	500	
		6061-T6 Bar .250 x	2.50	
		124443	M6061T6B0.250X04.	
	2	000	6061-T6 Bar .250 x	
	No	4.00		
		124443		
	3	M6061T6B0.375X01.		
	No	000	6061T6 BAR .375 x	
		1.00		
	4	124443	M6061T6B0.375X03	
	No	3.00	6061T6 BAR .375 X	
	5	124443	M6061T6B0.500X02	
	No	500	6061-T6 Bar .500 x	
	6	124443	M6061T6B0.750X03	
	No	2.50	6061-T6 Bar .750 x	
	7	124443	M6061T6B0.750X04	
	No	.750	6061-T6 Bar .750 x	

Receiving Report

Date:

Supplier:

Packing Slip: Yes
Invoice: Yes
Receipt: Cash

Batch No:

Dart P/O:

Release Note Attached:
Waybill Attached:
Shipment Complete

124443
18936

✓ No
No No
No No

N/A

N/A

N/A

N/A

QC Inspection 100% Complete

Work Order

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12

Location

Production/Admin:
Date
Received/Costing
Initial

B01-30
SF

H:\FORMS\Purchasing\approved purch\RECREPORT Rev D

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Vendor Name	VC-COP01	Thyssenkrupp Materials CA Ltd									
PO18936	7	M6061T6B0.750X04. f 000		1/30/2013	1/30/2013		12.0000	\$7.20	0.0000	0	\$86.44
CAD	No	6061-T6 Bar .750 x f 4.00		12.0000	DESJ02		\$86.44	0.0000	0		
		124443									
	8	M6061T6B00750X00 f .125		1/30/2013	1/30/2013		100.0000	\$0.36	0.0000	0	\$35.68
No		6061-T6 Bar .750 x f .125		100.0000	DESJ02		\$35.68	0.0000	0		
	9	M6061T6B1.000X02. f 000		1/30/2013	1/30/2013		36.0000	\$4.87	0.0000	0	\$175.49
No		6061-T6 Bar 1.00 x f 2.00		36.0000	DESJ02		\$175.49	0.0000	0		
	10	M6061T6B1.000X02. f 500		1/30/2013	1/30/2013		12.0000	\$5.86	0.0000	0	\$70.36
No		6061-T6 Bar 1.00 x f 2.50		12.0000	DESJ02		\$70.36	0.0000	0		
	11	M6061T6B1.000X12. f 000		1/30/2013	1/30/2013		12.0000	\$28.38	0.0000	0	\$340.55
No		6061-T6 Bar 1.00 x f 12.00		12.5000	DESJ02		\$340.55	0.0000	0		
	12	M6061T6B1.000X15. f 000		1/30/2013	1/30/2013		12.5000	\$47.98	0.0000	0	\$599.79
No		6061-T6 Bar 1.00 x f 15.00		12.5000	DESJ02		\$599.79	0.0000	0		
	13	M6061T6B1.250X01. f 250		1/30/2013	1/30/2013		48.0000	\$3.69	0.0000	0	\$176.91
No		6061-T6 Bar 1.25 x f 1.25		48.0000	DESJ02		\$176.91	0.0000	0		
	14	M6061T6B2.000X02. f 000		1/30/2013	1/30/2013		36.0000	\$9.44	0.0000	0	\$339.72
No		6061-T6 Bar 2.00 x f 2.00		36.0000	DESJ02		\$339.72	0.0000	0		
	124443										

Purchase Order ID/ Curr Type	Line Nbr/ Insp	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	(PO U/M)	Recv Qty Recv Value	Cost Per Unit/ Rejected Qty (PO U/M)	Inspected Qty/ MRB Qty/ (PO U/M)	MRR Reject Qty	Book Amt
VendorID	Vendor Name	VC-COP001	Thyssenkrupp Materials CA Ltd									
PO18936	15	M6061T6B1.500X01 f 250			1/30/2013	1/30/2013		36.0000	\$4.57	0.0000	0	\$164.64
CAD	No	6061-T6 Bar 1.50 x f					36.0000	DESI02		\$164.64	0.0000	0
		123										
		124443										
16	000	M6061T6B2.000X08 f			1/30/2013	1/30/2013		12.0000	\$37.86	0.0000	0	\$454.31
No		6061-T6 BAR 2.00' f					12.0000	DESI02		\$454.31	0.0000	0
		X 8.00"										
17	500	M6061T6B1.500X02 f			1/30/2013	1/30/2013		36.0000	\$8.88	0.0000	0	\$319.62
No		6061-T6 Bar 1.50 x f					36.0000	DESI02		\$319.62	0.0000	0
		2.50										
		124443										

Total Received Quantity: 432.5000
 Total Qty to Inspect (PO U/M): 0.0000
 Total Reject Quantity: 0.0000
 Total Receipt Value: \$2,916.28
 Total Balance Due Quantity: 0.5000

B I L L

O F L A D I N G

I N G

No: PEC 805103

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 28Jan13 at 11:14 From PFW
 Probill
 Via VIM TRANSFER
 FOB CONCORD
 Frt PREPAID
 Route 0-0 Manifest
 Vhicle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

✓ 1) Our Order PEC-530434- 1 Your PO # 18936

ALUMINUM FLAT BAR 6061-T6511

.250" x 2.50" X 240.0000"

Heat Number Tag No
201300292 144959

Quantity PCS Wt LBS
20 FT 1 15

MTR

✓ 2) Our Order PEC-530434- 2 Your PO # 18936

ALUMINUM FLAT BAR 6061-T6511

.250" x 4.00" X 144.0000"

Heat Number Tag No
18526 144960

Quantity PCS Wt LBS
12 FT 1 14

MTR

✓ 3) Our Order PEC-530434- 3 Your PO # 18936

ALUMINUM FLAT BAR 6061-T6511

.375" x 1.00" X 144.0000"

Heat Number Tag No
Z00243003 144961

Quantity PCS Wt LBS
12 FT 1 5

MTR

✓ 4) Our Order PEC-530434- 4 Your PO # 18936

ALUMINUM FLAT BAR 6061-T6511

.375" x 3.00" X 144.0000"

Heat Number Tag No
12091081A 144962

Quantity PCS Wt LBS
12 FT 1 16

MTR

✓ 5) Our Order PEC-530434- 5 Your PO # 18936

ALUMINUM FLAT BAR 6061-T6511

.50" x 2.50" X 144.0000"

Heat Number Tag No
201222754 144963

Quantity PCS Wt LBS
12 FT 1 17

MTR

Page: 1Continued

Sp B-0-30

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

BILL OF LADING

NO: PEC 805103
 Ship From: THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033
 Ship Date 28Jan13 at 11:14 From PFW
 Probill
 Via VIM TRANSFER
 FOB CONCORD
 Frt PREPAID
 Route 0-0 Manifest
 Vhicle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE

Ship To: (1)
 DART AEROSPACE

BILL OF LADING

✓ 6) Our Order PEC-530434-6 Your PO # 18936
 ALUMINUM SQUARE BAR 6061-T6511
 .750" X 144.0000"

Heat Number Tag No
 12090031A 144964

Quantity PCS Wt LBS
 ✓ 12 FT 1 8

✓ 7) Our Order PEC-530434-7 Your PO # 18936
 ALUMINUM FLAT BAR 6061-T6511
 .750" x 4.00" X 144.0000"

Heat Number Tag No
 201221010 144965

Quantity PCS Wt LBS
 ✓ 12 FT 1 43

✓ 8) Our Order PEC-530434-8 Your PO # 18936
 ALUMINUM FLAT BAR 6061-T6511
 .125" x .750" X 240.0000"

Heat Number Tag No
 12110331A 144966

Quantity PCS Wt LBS
 ✓ 100 FT 5 11

✓ 9) Our Order PEC-530434-9 Your PO # 18936
 ALUMINUM FLAT BAR 6061-T6511
 1.00" x 2.00" X 144.0000"

Heat Number Tag No
 201221186 144967

Quantity PCS Wt LBS
 ✓ 36 FT 3 86

✓ 10) Our Order PEC-530434-10 Your PO # 18936
 ALUMINUM FLAT BAR 6061-T6511
 1.00" x 2.50" X 144.0000"

Heat Number Tag No
 2BS870 144968

Quantity PCS Wt LBS
 ✓ 12 FT 1 35

✓ 11) Our Order PEC-530434-11 Your PO # 18936
 ALUMINUM FLT BAR ECONOPLT 6061-T6511
 1.00" X 12.00" X 144.5000"

Heat Number Tag No

Quantity PCS Wt LBS

Page: 2Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

BILL OF LADING

NO: PEC 805103
 Ship From: THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033
 Ship Date 28Jan13 at 11:14 From PFW
 Probill
 Via VIM TRANSFER
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhicle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE

Ship To: (1)
 DART AEROSPACE

BILL OF LADING
201221564

145079

12 ' .5000 "

1

170

12) Our Order PEC-530434- 12 Your PO # 18936
 ALUMINUM PLATE 6061-T651
 1.00" THICK X 15.0000" X 144.5000"
 Heat Number Tag No
 09/10/026C0 144593

Quantity PCS
15.05 SFT 1

Wt LBS
219

13) Our Order PEC-530434- 13 Your PO # 18936
 ALUMINUM SQUARE BAR 6061-T6511
 1.250" X 144.0000"
 Heat Number Tag No
 2BR922 144969

Quantity PCS
48 FT 4

Wt LBS
88

14) Our Order PEC-530434- 14 Your PO # 18936
 ALUMINUM FLAT BAR 6061-T6511
 1.250" x 1.50" X 144.0000"
 Heat Number Tag No
 Z00261029 144970

Quantity PCS
36 FT 3

Wt LBS
80

15) Our Order PEC-530434- 15 Your PO # 18936
 ALUMINUM SQUARE BAR 6061-T6511
 2.00" X 144.0000"
 Heat Number Tag No
 201219894 144971

Quantity PCS
36 FT 3

Wt LBS
172

16) Our Order PEC-530434- 16 Your PO # 18936
 ALUMINUM FLAT BAR 6061-T6511
 2.00" X 8.00" X 144.0000"
 Heat Number Tag No
 201201586 144972

Quantity PCS
12 FT 1

Wt LBS
224

17) Our Order PEC-530434- 17 Your PO # 18936
 ALUMINUM FLAT BAR 6061-T6511
 1.50" x 2.50" X 144.0000"

Page: 3Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

130
COP 130

B I L L O F L A D I N G

No: PEC 805103

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 28Jan13 at 11:14 From PFW
 Probill
 Via VIM TRANSFER
 FOB CONCORD
 Frt PREPAID
 Route 0-0 Manifest
 Vhicle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE

Ship To: (1)
 DART AEROSPACE

B I L L O F L A D I N G

Heat Number	Tag No	Quantity	PCS	Wt LBS
2BR823	144973	36 FT	3	158
		TOTAL:	Tags 17 PCS 32	LBS 1361

*** Chemical Analysis ***

Heat Number
 09/10/026C0
 12090031A
 12091081A
 12110331A
 18526
 201201586
 201219894
 201221010
 201221186
 201221564
 201222754
 201300292
 2BR823
 2BR922
 2BS870
 Z00243003
 Z00261029

SP 13-01-30'

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

TOTAL 4 BDLS G.W. 1807 LBS

Page: 4Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

B I L L O F L A D I N G

No: PEC 805103

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 28Jan13 at 11:14 From PFW
 Probill
 Via VIM TRANSFER
 FOB CONCORD
 Frt PREPAID
 Route 0-0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE

Ship To: (1)
 DART AEROSPACE

B I L L O F L A D I N G

ITEMS (1,8) BDL
 ITEMS (2-7 AND 9,10 AND 13-17) BDL
 ITEM (11) BDL
 ITEM (12) BDL

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
 CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

***** WE STOCK STAINLESS STEEL *****

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***** PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE

ADDED TO EVERY ORDER.***

Page: 5 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM FLAT BAR 6061-T6511
250" X 2.50" X 240.0000"

PART NO.



SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

PO'Rel 18936

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL_PEC-805103-001
28Jan13

Page 1/1

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
166508	1

MANIFEST NUMBER	DATE OF SHIPMENT
178979	1/16/2013
CUSTOMER PO	ALLOY/TEMPER
PEC-244917	6061-T6511
CUSTOMER PART NUMBER	SALESPERSON
RB0074 X 240	David Schroeder
SCRB .250x2.500	DESCRIPTION
	AMS-QQA-2008

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SGM extrusions are manufactured in the USA.

Mechanical Properties

Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
01/12/13	44.9	42.2	14.0
01/12/13	42.4	40.0	12.9

310430

DAS 1483

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others Total	Melt Source:
122312	6061	0.63	0.18	0.17	0.00	0.85	0.05	0.00	0.01	98.11	0.05	0.15	Qatar (Hydro)

Print Date: 1/16/2013

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 9/2/2011 - UMS

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
250" X 4.00" X 144.0000"

PART NO.

EXTRUDEX

ALUMINUM

PO/Ref 18936

We certify that this is a true copy of the report
furnished by the producer of the metal or data
resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-805103-002

28 Jan 13

Pg 1/1

TEL: (416) 745-4444 FAX: (416) 745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST REPORT

BILL TO

THYSSENKRUPP MATERIALS,NA

SHIP TO

THYSSENKRUPP MATERIALS,NA

SO DESCRIPTION

250"X4" FB

Cast Code:

1

Customer No

PEC-242550

Customer Part Number

1-250-4000

S

ALLOY

TEMPER

T6511

Salesman

FORBES DODWELL

CERTIFICATION

PART DESCRIPTION

MADE IN CANADA

MILL TEST ASTM B221-12

EXTRUDEX ORDER NO.

MANIFEST NO.

151040 — 1

276558

Test Date

Ultimate Tensile Strength (KSI)

(KSI)

Yield Strength

(KSI)

Percent Elongation

Hardness

Conductivity

Lot

Alloy

A.11

6061

Oct/16/12

43.1

39.5

13.60

88.5,88.2,88.0

Chemical Composition

	Cast Number	Si	Fe	Cr	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11	18826 6061	0.55	0.23	0.21	0.06	0.83	0.04	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

13/01/2013

David Matale
Quality Control Manager

DAVID MATALE

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

.375" x 1.00" X 144.000"

PART NO.

PO/Rel 18936

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC 805103-003

28Jan13

Pg 1/2

Signed by: _____



Brett J. Goss

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:		
PEC-241958-11		ALREC00208		.375 X 1.000 SC RECT BAR		
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:	
627965	011	10/02/2012	Z00243003	6061	T6511	
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:	
1016.000 LB	192.000 PCS	604574			12.000 FT	
SHIP TO:		SOLD TO:				
THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA				

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00243003	0001	1	44.7	41.0	17.8	RE 91	N/A	N/A
Z00243003	0001	2	46.2	42.5	17.0	RE 91	N/A	N/A
Z00243003	0001	3	44.6	40.9	13.3	RE 90	N/A	N/A
Z00243003	0001	4	44.6	41.0	18.2	RE 92	N/A	N/A
Z00243003	0001	5	44.9	41.2	17.2	RE 93	N/A	N/A
Z00243003	0001	6	44.7	41.1	17.9	RE 92	N/A	N/A
Z00243003	0001	7	45.0	41.4	18.0	RE 92	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
102012	.69	.26	.23	.08	.94	.09	.02	.02	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-12 STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 (2007) UNS#A96061
(T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

DAS
14
9-83 / 13/01/30

Plant Serial: 00062347
Kaiser Order Number: 627965
Line Item: 011

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

.375" x 1.00" X 144.000"

PART NO.

PO/Rel 18936

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-805103-003

28Jan13

Pg 2/2

Signed by: _____

KAISER ALUMINUM FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Calvin Latting, Quality & Technology Manager

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
.375" x 3.00" X 144.000"
PART NO.

PO/Ref 18936

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC 805103-004

28Jan13

Pg 1/1

Signed by:

CAN ART
ALUMINUM EXTRUSION INC.

Material Test Report

Manifest: 252270

Ticket:
5280548

Ship To: ThyssenKrupp Materials NA
2821 Langstaff Road
Concord, ON L4K 5C6

Our Order: **388867 - 5** Cust P.O.: **242137**
Die: **ES05677** Part: **05677-000-144**
Alloy Temper: **6061 T6511** Description: **.375 x 3.000**
Print Date: **10/3/12**

Chemical Composition Range										
6061	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other Each	Other Total
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

Mechanical Properties							
Strength ksi							
Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length	
131939	12091081A	A11	10/2/12	46.14	42.37	9.9	

CAN ART
ALUMINUM EXTRUSION INC.

Applicable Specifications: **ASTMB221-08 QQA200/8**

Country of Origin: **85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1**

DAS
14
8-89 13/6/130

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Ray Hussain - Tensile Testing

Authorized:


Evan Eng, Quality Assurance Mgr.

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

.50" X 2.50" X 144.0000"

PART NO.

PO/Rel 13936

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-805103-005

28Jan13

Pg 1/1

SERVICE CENTER METALS

5850 Quality Way

Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
166119	2

CERTIFICATION: ASTM-B221-12 Stencil Continuous

SPECIFICATION: AMS-QQA-2001B

Items produced and certified as 6061-T6511
also meet the requirements of 6061-T6

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.

SCM extrusions are manufactured in the USA.

TEST DATE	ULTIMATE TENSILE STRENGTH (KSI)	YIELD STRENGTH (KSI)	PERCENT ELONGATION
01/09/13	43.4	42.6	12.9
01/09/13	45.6	43.8	14.7
01/09/13	43.2	42.2	12.1
01/09/13	45.1	43.7	15.8
01/09/13	45.2	43.9	13.3
01/09/13	46.4	45.1	13.2

BILL TO:
ThyssenKrupp Materials NA
ThyssenKrupp Materials NA PEC
Quantity Certified

MANIFEST NUMBER: 178618
CUSTOMER PO: PEC-244747
CUSTOMER PART NUMBER: RB0097

DATE OF SHIPMENT: 1/11/2013
SALESPERSON: David Schroeder
DESCRIPTION: SCRB 500X2.500

Chemical Composition for Aluminum Alloy 6061

CAST NUMBER	ALLOY	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others	Total	Melt Source:
113025	6061	0.71	0.35	0.32	0.10	0.85	0.11	0.08	0.02	97.46	0.05	0.15	United States of America
C67R0330	6061	0.63	0.16	0.18	0.01	0.85	0.06	0.01	0.01	98.09	0.05	0.15	United States of America
C67R0331	6061	0.61	0.16	0.17	0.02	0.85	0.06	0.01	0.02	98.10	0.05	0.15	United States of America

13/01/30
AS 148
01/09/13

Print Date: 1/11/2013

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SQUARE BAR 6061-T6511
.750" X 144.0000"
PART NO.

PO/Rel 18936

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-805103-006

28Jan13

Pg 1/1

Signed by: _____

CAN ART
ALUMINUM EXTRUSION INC.

Material Test Report

Ship To: ThyssenKrupp Materials NA
2821 Langstaff Road
Concord, ON L4K 5C6

Our Order: 388937 - 5 Cust P.O.: 242246
Die: ES05504 Part: 05504-000-144
Alloy Temper: 6061 T6511 Description: .750 x .750
Print Date: 10/10/12

Manifest: 252539

Ticket:
5280930

Chemical Composition Range											
6061	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other Each	Other Total	
Min	0.40		0.15		0.8	0.04					
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15	

Mechanical Properties							
		Strength ksi					
Sample ID	Cast #	Lot #	Test Date	Ultimate Tensile	Yield 2% offset	Elongation 2" gage length	
131947	12090031A	A11	10/2/12	41.12	37.66	9.9	

Applicable Specifications ASTMB221-08 QQA200/8

Country of Origin: 85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1

DAS
14
9-89

13/10/12

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Ray Hussain - Tensile Testing

Authorized:

Evan Eng, Quality Assurance Mgr.

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

750" X 4.00" X 144.0000"

PART NO.

PO/Rel 18936

We certify that this is a true copy of the report
furnished by the producer of the metal or data
resulting from tests made in approved labs.

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

SCM
SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

OUR ORDER NUMBER	ITEM
163798	2

BILL TO:
ThyssenKrupp Materials NA
SHIP TO:
ThyssenKrupp Materials NA PEC

Quantity Certified 1,270 lbs
30pcs
CUSTOMER PART NUMBER RB0119
DESCRIPTION SCRB .750x4.000

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.
SCM extrusions are manufactured in the USA.

Mechanical Properties

TESTS	LOT NO.	TEST DATE	ULTIMATE TENSILE STRENGTH (KSI)	YIELD STRENGTH (KSI)	PERCENT ELONGATION
1	201221010	12/03/12	47.1	44.0	15.7

AS 4480
13/61/30
Items produced and certified as 6061-T6511
also meet the requirements of 6061-T6

Certificate of Mill Test Results
BL PEC-805103-007
28 Jan 13
Pg 1/1

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source:
C29J1069	6061	0.72	0.39	0.31	0.10	0.88	0.09	0.01	0.02	97.48	0.05	0.15	United States of America	

AS 4480
13/61/30

Print Date: 12/7/2012

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T651
125" X .750" X 240.0000"

PART NO.

EXTRUDEX

A: 11M1N1J4

PO/Ref 13936

Signed by:

Certificate of Mill Test Results

BL PEC-805103-008

28Jan13
Pg 1/1

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

TEL: (416)745-4444 FAX:(416)745-0925 1-800-568-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST REPORT

BILL TO	SHIP TO	SO DESCRIPTION	Customer Part Number	Part Description	Customer PO	Alloy	Temper	Salesman	Extrudex Order No.	Manifest No.
THYSSENKRUPP MATERIALS,NA	THYSSENKRUPP MATERIALS,NA	125"x.750" FB	PEC-243994	1-125-750	6061	T651	FORBES DODWELL	MADE IN CANADA	152624 - 4	279554

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Dec/03/12	41.9	37.2	12.20	87.1, 86.8, 87.0	

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Tl	Ga	V	B	Zr	Bi	Pb	Sn	Si	Co	Al	Other
A.11 12110331A	0.55	0.16	0.20	0.01	0.80	0.08	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00


 David Natale
 Quality Control Manager

13/01/13
 DAS
 14⁹

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
1.00" X 2.00" X 144.0000'
PART NO.



SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

PO/Rel 18936

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

Signed by: _____

Certificate of Mill Test Results

BL PEC-805103-009 28Jan13
Pg 1/1

BILL TO	MANIFEST NUMBER	DATE NUMBER	DATE OF SHIPMENT	ITEM
ThyssenKrupp Materials NA	176543	RB0124	12/13/2012	164440
SHIP TO		ALLOY/TEMPER		27
ThyssenKrupp Materials NA PEC	PEC-244211	SALES PERSON	David Schroeder	
Quantity Certified	54pcs	CUSTOMER PART NUMBER	SCRB 1.000x2.000	
1,542 lbs	RB0124	DESCRIPTION	AMS-QQA-2008	

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

TEST DATE	UTIMATE TENSILE STRENGTH (KSI)	YIELD STRENGTH (KSI)	PERCENT ELONGATION
12/05/12	49.0	45.8	15.0
12/05/12	47.5	44.2	16.7
12/05/12	48.4	45.1	14.7
12/05/12	48.9	45.3	15.3
12/05/12	48.9	45.4	13.9
12/05/12	48.9	45.5	15.0
12/05/12	49.0	45.8	15.0
12/05/12	47.5	44.2	16.7
12/05/12	48.4	45.1	14.7
12/05/12	48.9	45.3	15.3
12/05/12	48.9	45.4	13.9
12/05/12	48.9	45.5	15.0
12/05/12	49.0	45.8	15.0
12/05/12	47.5	44.2	16.7
12/05/12	48.4	45.1	14.7
12/05/12	48.9	45.3	15.3
12/05/12	48.9	45.4	13.9
12/05/12	48.9	45.5	15.0
12/05/12	49.0	45.8	15.0
12/05/12	47.5	44.2	16.7
12/05/12	48.4	45.1	14.7
12/05/12	48.9	45.3	15.3
12/05/12	48.9	45.4	13.9
12/05/12	48.9	45.5	15.0
12/05/12	49.0	45.8	15.0

CAST NUMBER	ALLOY	Si	Fe	Cu	Mn	Mg	Cr	Zn	Tl	Al	Each	Others Total	Melt Source:
1112148	6061	0.74	0.35	0.31	0.10	0.87	0.09	0.07	0.03	97.44	0.05	0.15	United States of America
1112157	6061	0.75	0.34	0.32	0.10	0.87	0.10	0.07	0.02	97.43	0.05	0.15	United States of America

Chemical Composition for Aluminum Alloy 6061

Print Date: 12/13/2012
Rev. 9/23/11 - UMS

Calvin J. Wiggins, Director of Quality & Technical Services

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM PLATE BAR 6061-T6511
1.00" X 2.50" X 144.0000"

PART NO.

EXTRUDEX

A-ALUMINUM

TEL: (416)745-4444 FAX:(416)745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

PO/Ref 18936

Signed by: _____

Certificate of Mill Test Results
BL PEC-805103-010
28Jan13
Pg 1/1

We certify that this is a true copy of the report
furnished by the producer of the metal or data
resulting from tests made in approved labs.

MILL TEST REPORT

BILL TO	THYSSENKRUPP MATERIALS,NA		Cust Code:	1	DATE NUMBER	DATE OF SHIPMENT	EXTRUDEX ORDER NO.	MANIFEST NO.
SHIP TO			CUSTOMER PO	PEC-243029	ALLOY	4655	11/19/2012	151534 - 6 278491
THYSSENKRUPP MATERIALS,NA			CUSTOMER PO	6061	TEMPER	T511	SALESMAN FORBES DODWELL	MADE IN CANADA
so description			CUSTOMER PART NUMBER	1-1000-2500	PART DESCRIPTION		CERTIFICATION	MILL TEST ASTM B221-12

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Nov/14/12	43.0	39.3	13.50	91.0 90.8,91.3	

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Si	Co	Al	Other
A.11 2BS870 6061	0.59	0.16	0.21	0.03	0.89	0.07	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00


David Natale
Quality Control Manager

QAS
148

3/6/13

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR ECONOPT 6061-T651
1.00" X 12.00" X 144.500"

PART NO.



SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

PO/Rel 18936

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-805103-011

28Jan13
Pg 1/1

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

OUR ORDER NUMBER	ITEM
164614	3

BILL TO
ThyssenKrupp Materials NA
SHIP TO
ThyssenKrupp Materials NA PEC
Quantity Certified
2,032 lbs

MANIFEST NUMBER
176547
CUSTOMER PO
PEC-244313
CUSTOMER PART NUMBER
PL0741

DATE NUMBER
PL0741
ALLOY/TEMPER
6061-T6511E
DESCRIPTION
PL 1.000 x 12.000

DATE OF SHIPMENT
12/13/2012
SALESPERSON
David Schroeder

CERTIFICATION
ASTM-B221-12 Stencil/Continuous
SPECIFICATION
AMS-QQA-200/8

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.
SCM extrusions are manufactured in the USA.

Mechanical Properties

Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
12/10/12	50.1	46.7	14.7

13/01/30

AS
1489

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source:
1112080	6061	0.76	0.37	0.31	0.11	0.90	0.11	0.05	0.02	97.37	0.05	0.15	United States of America	
1112157	6061	0.75	0.34	0.32	0.10	0.87	0.10	0.07	0.02	97.43	0.05	0.15	United States of America	

Print Date: 12/13/2012

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 9/23/11 - UMS

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM PLATE 0.061"-15.5"
1.00" THICK X 15.0000" X 144.500"

PART NO.

PO/Ref 18936

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by: _____

Certificate of Mill Test Results

BL PEC-805103-012

28Jan13
Pg 1/1

TEST CERTIFICATE

 **HULAMIN**

HEAD OFFICE & Works: Mahluda Rd, Pierrefonds, Durban 3201 P.O. Box 74 Pietermaritzburg 3200, South Africa
Telephone: +27 33 395 6911 - Facsimile: +27 33 394 6335

Certificate No : 1210LBS999

BUYER: THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD ONTARIO	Shipping File No: 09/10026C0	Product : PLATE HEAT TREATED FINISHED, 8081-T651 1" X 40.5" X 144.5"
Lot No : PLI List No : Release No :	21169562 REC1745	Dimension : 1"X40.5"X144.5" Alloy - Temper : 6061 - T651
Cust Order No : HULAMIN Order No.: 225052E	Cust Ref Part No : Item Part : 1M	Certificate No : 1210LBS999 Cust Ref Part No : Combined PLI List No : R184535

Case No.: PY001/PY900/PF902

MECHANICAL TEST RESULTS

Lot No.	Cast No.	Metal Id	Alloy	Spec No	Mechanical Properties							
					Yield Strength (Ksi)	UTS (Ksi)	Elongation A30 (%)	Earing (%)	Yield Ratio	Gauge Length (Inches)	Dend Test	Actual Gauge (Inches)
Spec					Min Max	35.1	42.0	8			1	1.039
09101026C0	VBF	39405039	8081		1	40.0	46.0	15		09100112	2	1.022
					2	40.0	46.0	15		09101012	2	1.022

CHEMICAL COMPOSITION

Cast No.	Alloy	Si(%)	Cr(%)	Mn(%)	Ni(%)	Cr(%)	Zn(%)	Ti(%)	Each(%)	Total(%)	Al(%)
Min		0.40	0.15	0.18	0.05	0.15	0.12	0.04	0.05	0.05	0.05
Max		0.5	0.2	0.40	0.15	0.30	0.11	0.04	0.20	0.06	0.11
VERIF		0.70	0.42	0.30	0.11	0.14	0.10	0.01			

AS
14
9

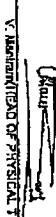
13/01/30

CONFORMS TO ASME SB-349, ASTM B800M, AMS 4927N, AMS-QQ-A-250/7, 06-5927
For purposes of determining conformance with these specifications, an observed value or a calculated value shall be rounded "to the nearest unit" in the last significant digit
used in expressing the specification limit, in accordance with the rounding method of ASTM Practice E29, for Using Significant Digits in Test Data to Determine
Conformance with Specifications.

WE HEREBY CERTIFY, THAT THE MATERIAL DESCRIBED ABOVE HAS BEEN TESTED AND COMPLIES WITH THE TERMS OF THE ORDER CONTRACT, THE INSPECTION RESULTS
INDICATED IN THE CHEMICAL COMPOSITION HAVE BEEN OBTAINED FROM CAST ANALYSIS.


DR. A. PHOTIOPHIS (HEAD OF CHEMICAL TESTING)

Ver 2.0.0


V. MACHARIA (HEAD OF PHYSICAL TESTING)

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM SQUARE BAR 6061-T6511
1.250" X 144.000"
PART NO.

EXTRUDEX

ALUMINUM

TEL: (416)745-4444 FAX:(416)745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

Signed by: _____

Certificate of Mill Test Results

BL PEC-805103-013

28Jan13
Pg 1/1

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

MILL TEST REPORT

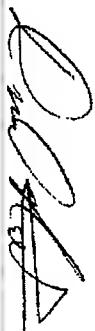
BILL TO	CERT CODE:	DATE NUMBER	DATE OF SHIPMENT	EXTRUDEX ORDER NO.	MANIFEST NO.
THYSSENKRUPP MATERIALS,NA	1	S 4763	10/2/2012	150508 - 7	275304
SHIP TO	CUSTOMER PO	ALLOY	TEMPER	SALESMAN	
THYSSENKRUPP MATERIALS,NA	PEC-242176	6061	T6511	FORBES DODWELL	MADE IN CANADA
SO DESCRIPTION	CUSTOMER PART NUMBER	PART DESCRIPTION		CERTIFICATION	MILL TEST ASTM B221-12
1.25" SQ	3-1250				

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Oct/02/12	43.2	38.9	14.80	91.9,92.3,91.2	

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Tl	Ga	V	B	Zr	Bi	Pb	Sn	Se	Ge	Al	Other
A.11	0.57	0.17	0.21	0.01	0.87	0.07	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	


 David Natale
 Quality Control Manager

13/01/30
 DAS 488
 11-0

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

1.250" x 1.50" X 144.000"

PART NO.

PO/Rel 18936

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-805103-014

28Jan13

Pg 1/2

Signed by: _____

KAISER
ALUMINUM
FABRICATED PRODUCTS

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:							
PEC-244210-3		ALREC00007		1.250 X 1.500 SC RECT BAR							
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:		KAISER LOT NUMBER:	ALLOY:	TEMPER:					
633256	003	12/07/2012		Z00261029	6061	T6511					
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:		DIA/M/DAF/THKNS:	WIDTH:	LENGTH:					
952.000 LB	36.000 PCS	605071				12.000 FT					
SHIP TO:				SOLD TO:							
THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA				THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA							

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00261029	0001	1	48.7	46.1	17.3	RE	93	N/A
Z00261029	0001	2	46.2	43.1	14.2	RE	92	N/A
Z00261029	0001	3	47.8	45.0	13.4	RE	92	N/A
Z00261029	CC01	4	46.5	43.5	16.9	RE	91	N/A
Z00261029	CC01	5	46.9	43.8	16.4	RE	90	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.30	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
102122	.70	.28	.24	.09	.91	.09	.02	.03	.00	.00	.00	.01	.03

Applicable Requirements:

ASTM-B221-12 STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 (2007) UNS#A96061
(T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

DAS
14
9-89 13/01/30

Plant Serial: 00069563
Kaiser Order Number: 633256
Line Item: 003

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
1.250" x 1.50" X 144.0000"
PART NO.

PO/Rel 18936

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-805103-014

28Jan13

Pg 2/2

Signed by: _____

KAISER
ALUMINUM
FABRICATED PRODUCTS

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Calvin Latting, Quality & Technology Manager

Plant Serial: 00069563

Kaiser Order Number: 633256

Line Item: 003

Page 2 of 2

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM SQUARE BAR 6061-T6511

2.00" X 144.000"
PART NO.

PO/Rel 18936

We certify that this is a true copy of the report
furnished by the producer of the metal or data
resulting from tests made in approved labs.

SERVICE CENTER METALS

5850 Quality Way

Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

Certificate of Mill Test Results
BL PEC-805103-015
28 Jan 13
Pg 1/1



OUR ORDER NUMBER	ITEM
163679	6

BILL TO
TyssenKrupp Materials NA
SHIP TO
ThyssenKrupp Materials NA PEC

MANIFEST NUMBER
175459
CUSTOMER PO
PEC-243903
Quantity Certified
3,084 lbs
54 pcs
CUSTOMER PART NUMBER
SQ0044

DATE OF SHIPMENT
11/30/2012
ALLOY / TEMPER
6061-T6511
SALES PERSON
David Schroeder
DESCRIPTION
SCSB 2.000

CERTIFICATION
ASTM-B221-12 Stencil/Continuous
SPECIFICATION
AMS-QQA-200/8

Items produced and certified as 6061-T6
also meet the requirements of 6061-T6

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
91	201219894	11/16/12	50.0	46.8	11.5
92	201219894	11/16/12	50.7	47.1	16.9
93	201219894	11/20/12	49.5	45.8	12.2
94	201219894	11/20/12	50.4	46.9	13.2
95	201219894	11/21/12	48.1	44.2	14.9

13/01/130

AS-48

[Chemical Composition for Aluminum Alloy 6061]

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source:
1112006	6061	0.71	0.37	0.31	0.09	0.85	0.10	0.04	0.03	97.50	0.05	0.15	United States of America	

Print Date: 11/30/2012

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
2.00" X 8.00" X 144.0000"

PART NO.

PO/Ref 13936

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

Certificate of Mill Test Results

BL PEC-805103-016

28Jan13

Pg 1/1

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

SCM
SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

BILL TO	ThyssenKrupp Materials NA	MANIFEST NUMBER	170434	DATE OF SHIPMENT	9/27/2012
SHIP TO	ThyssenKrupp Materials NA PEC	CUSTOMER PO	PEC-242175	SALESPERSON	David Schroeder
Quantity Certified	1,129 lbs	CUSTOMER PART NUMBER	PL0745	DESCRIPTION	PL 2.000x8.000
5 pcs					

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511
also meet the requirements of 6061-T6

Test	Lot No.	Test Date	Ultimate Tensile Strength [KSI]	Yield Strength [KSI]	Percent Elongation
91	201201586	01/31/12	48.8	45.5	14.0
92	201201586	01/31/12	47.9	44.7	15.0

13/01/30

DAS
14
9-8

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source
110312	6061	0.76	0.35	0.32	0.12	0.91	0.18	0.05	0.02	97.29	0.05	0.15	United States of America	
112714	6061	0.77	0.36	0.34	0.11	0.88	0.15	0.05	0.02	97.32	0.05	0.15	United States of America	

Print Date: 9/27/2012

Calvin I. Wiggins, Director of Quality & Technical Services

Rev. 9/23/11 - UMS

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
1.50" X 2.50" X 144.0000"

PART NO.

PO/Rel 18936
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Certificate of Mill Test Results

BL.PEC-805.03-017

28 Jan 13
Pg 1/1

EXTRUDEX

TEL: (416)745-4444 FAX:(416)745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST REPORT

BILL TO

THYSSENKRUPP MATERIALS,NA
SHIP TO

CUSTOMER PO
PEC-242108

CUSTOMER PART NUMBER
1-1500-2500

DATE OF SHIPMENT
10/2/2012

EXTRUDEX ORDER NO.
150402 — 3

MANIFEST NO.
275290

TEST DATE
Oct/01/12

TEST DATE
Oct/01/12</p



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO18936**

Purchase Order Date 1/24/13

PO Print Date 1/24/13

Page Number 1 of 4

Order From :
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275 POSTAL "A"
TORONTO, ON M5W 5V8
CA

VC-COP001

Contact Name	Buyer	Chantal Lavoie
Vendor Phone	Requisition Nbr	
Vendor Fax	Tax Resale Nbr	10127-2607
Vendor Account Nbr	Terms	Net 30
	Currency	CAD
	FOB	Destination-Collect

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED
01/30/13

Line Nbr	Reference Revision ID	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price	
1	M6061T6B0.250X02.500	6061-T6 Bar 0.25 X 2.50	1/30/13 Yes	✓ 20.00 f	Yours ppd	\$1.5000	\$30.00	
		Special Inst:	MATERIAL: 6061-T6/T651/T6510/6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221					
2	M6061T6B0.250X04.000	6061-T6 Bar .250 X 4.00	1/30/13 Yes	✓ 12.00 f	Yours ppd	\$2.3333	\$28.00	
		Spec:	SAME AS ABOVE					
3	M6061T6B0.375X01.000	6061T6 BAR .375 X 1.00	1/30/13 Yes	✓ 12.00 f	Yours ppd	\$0.8333	\$10.00	
		Spec:	SAME AS ABOVE					

SP B-01-30.

No substitution or deviation without consent.
Certificate of Conformity or Material Certification required YES NO

Change Nbr: 1

Change Date: 1/24/13



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18936

Purchase Order Date 1/24/13

PO Print Date 1/24/13

Page Number 2 of 4

Order From :

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

VC-COP001

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Requisition Nbr	
Vendor Fax	905 738 9033	Tax Resale Nbr	10127-2607
Vendor Account Nbr		Terms	Net 30
		Currency	CAD
		FOB	Destination-Collect

4	M6061T6B0.375X03.000	6061T6 BAR .375 X 3.00	1/30/13 Yes	✓ 12.00 Yours ppd f	\$2.6667	\$32.00
5	M6061T6B0.500X02.500	6061-T6 Bar .500 x 2.50	1/30/13 Yes	✓ 12.00 Yours ppd f	\$3.0000	\$36.00
6	M6061T6B0.750X00.750	6061-T6 Bar .750 x .750	1/30/13 Yes	✓ 12.00 Yours ppd f	\$1.3333	\$16.00
7	M6061T6B0.750X04.000	6061-T6 Bar .750 x 4.00	1/30/13 Yes	✓ 12.00 Yours ppd f	\$7.1667	\$86.00
8	M6061T6B00750X00.125	6061-T6 Bar .750 x .125	1/30/13 Yes	✓ 100.00 Yours ppd f	\$0.3550	\$35.50
9	M6061T6B1.000X02.000	6061-T6 Bar 1.00 x 2.00	1/30/13 Yes	✓ 36.00 Yours ppd f	\$4.8500	\$174.60

SP13-01-30

No substitution or deviation without consent.
Certificate of Conformity or Material Certification required - YES NO

Change Nbr: 1

Change Date: 1/24/13



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18936

Purchase Order Date 1/24/13

PO Print Date 1/24/13

Page Number 3 of 4

Order From :

THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL-C/O T27540/PO BOX 4275, POSTAL "A"
TORONTO, ON M5W 5V8
CA

Contact Name	VC-COP001	Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Requisition Nbr	
Vendor Fax	905 738 9033	Tax Resale Nbr	10127-2607
Vendor Account Nbr		Terms	Net 30
		Currency	CAD
		FOB	Destination-Collect

10	M6061T6B1.000X02.500	6061-T6 Bar 1.00 x 2.50	Special Inst: SAME AS ABOVE 1/30/13 Yes	✓ 12.00 Yours ppd f	\$5.8333	\$70.00
11	M6061T6B1.000X12.000	6061-T6 Bar 1.00 x 12.00	Special Inst: SAME AS ABOVE 1/30/13 Yes	✓ 12.50 Yours ppd f	\$28.2353	\$352.94
12	M6061T6B1.000X15.000	6061-T6 Bar 1.00 x 15.00	Special Inst: SAME AS ABOVE 1/30/13 Yes	✓ 12.50 Yours ppd f	\$47.7400	\$596.75
13	M6061T6B1.250X01.250	6061-T6 Bar 1.25 x 1.25	Special Inst: SAME AS ABOVE 1/30/13 Yes	✓ 48.00 Yours ppd f	\$3.6670	\$176.02
14	M6061T6B2.000X02.000	6061-T6 Bar 2.00 x 2.00	Special Inst: SAME AS ABOVE 1/30/13 Yes	✓ 36.00 Yours ppd f	\$9.3889	\$338.00
15	M6061T6B1.500X01.250	6061-T6 Bar 1.50 x 1.25	Special Inst: SAME AS ABOVE 1/30/13 Yes	✓ 36.00 Yours ppd f	\$4.5500	\$163.80

SD B-01-30.

Change Nbr:	1	Change Date:	1/24/13	No substitution or deviation without consent. Certificate of Conformity or Material Certification required <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
-------------	---	--------------	---------	---



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18936

Purchase Order Date 1/24/13

PO Print Date 1/24/13

Page Number 4 of 4

Order From :
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

VC-COP001

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Requisition Nbr	
Vendor Fax	905 738 9033	Tax Resale Nbr	10127-2607
Vendor Account Nbr		Terms	Net 30
		Currency	CAD
		FOB	Destination-Collect

		Special Inst:	SAME AS ABOVE				
16	M6061T6B2.000X08.000	6061-T6 BAR 2.00' X 8.00"		1/30/13	<i>✓</i> 12.00 Yours ppd	\$37.6667	\$452.00
			No		f		
17	M6061T6B1.500X02.500	6061-T6 Bar 1.50 X 2.50		1/30/13	<i>✓</i> 36.00 Yours ppd	\$8.8333	\$318.00
			Yes		f		
		Special Inst.	SAME AS ABOVE			PO Total:	\$2,915.61

**MATERIAL CERTIFICATION
REQ'D UPON DELIVERY**

u *CL* No substitution or deviation without consent.
Certificate of Conformity or Material Certification required - YES NO

Change Nbr: 1

Change Date: 1/24/13

SP 13-01-36